THE MARTIN LUTHER KING, JR. NATIONAL HISTORIC SITE

Historic Finishes Analysis 493A, B, C Auburn Avenue Atlanta, Georgia



The Martin Luther King, Jr. National Historic Site

Historic Finishes Analysis 493A, B, C Auburn Avenue Atlanta, Georgia

Administered by The National Park Service

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Raleigh, North Carolina

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INTRODUCTION

Analysis of historic finishes at 493 Auburn Avenue (Units 1 - 6) is part of a continuing effort to document and preserve the cultural resources within The Martin Luther King, Jr. National Historic Site. Descriptions of the three duplexes can be found in the *Historic Structures Report*, July 2017, prepared by Joseph K. Oppermann–Architect, P.A. The three units were constructed in ca. 1911 - 1912 (referenced as ca. 1911 in the historic finishes analysis) by the African-American builder Alexander Hamilton.

The goals of the historic finishes analysis included:

- documentation of the three buildings' exterior appearance during the 1929 to 1941 period of Dr. King's childhood residency at 501 Auburn Avenue
- documentation of the interior appearance of unit #2 during the 1929 to 1941 period
- identification of alterations encountered in the analysis of finish samples

The principal findings of the historic finishes analysis included:

- the three duplexes were repainted, on average, every 6.5 years between the initial painting in ca. 1911 and the last painting of the buildings in 2008 by the National Park Service
- exteriors of the three buildings were painted in different color schemes from ca. 1911 until the late 20th century; each building was distinguished by a two-color scheme
- the east porches were constructed at the fourth painting of the exteriors, estimated to be ca. 1940
- all sash in the duplexes were replaced at the fifth painting of the exteriors

No historic benchmarks are known for the duplexes—at present it is not possible to distinguish the 1929 - 1941 period in the finishes record. It is estimated that the 1929 - 1941 period is represented by the third and fourth painting periods. Colors for these two painting periods are recorded in the schedules for ca. 1930 and ca. 1940.

The historic finishes analysis findings are described in three sections. The ca. 1930 and ca. 1940 exterior descriptions include a brief description of color placement, a schedule of the colors and mounted Munsell Color Standards for opaque colors in the finish schedules. The ca. 1930 and ca. 1940 interior finishes in unit #2 are described in combined text, schedules and Munsell Color Standards. Chromochronology work sheets follow the three sections.

Site investigations, laboratory analysis and report preparation were performed by George Fore, Architectural Conservator, of Raleigh, North Carolina. Site investigations were conducted in November 2017. The project architect is Joseph K. Oppermann–Architect, P.A., Winston-Salem, North Carolina.



#1 & 2 #3 & 4 #5 & 6

ANALYSIS PROCESS AND TECHNIQUES

Accumulation of paint and finish layers over time leave a distinct pattern that records the history of each element, along with its appearance at significant periods. Analysis of finish layer chronologies for a building can identify a building's development sequence and identify the order of construction. This is key to determining a schedule of finishes for a significant time period or event. Challenges in the analysis of historic finishes at 493A, B & C Auburn Avenue included locating unweathered, representative finish layers on the exterior and identifying historic benchmarks in the finish sequences.

Identification of the ca. 1929 - 1941 exterior appearance of the six units and the interior of #2 required review of some 50 samples. Finish treatments on the various surfaces ranged from the opaque colors applied to millwork to distemper washes applied to plaster. Early millwork finishes on the interior of #2 also included translucent, pigmented glazes applied over paint in imitation of wood. In addition to the schedules of the ca. 1930 and 1940 finishes, the analysis identified elements that had been replaced or added since the ca. 1910 construction of the duplexes.

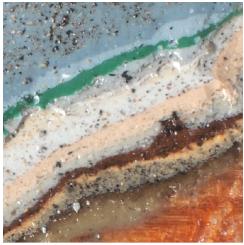
Several microscopy techniques were employed in the finishes research and included both on site microscopy and laboratory examination. Analysis of the historic finishes on site employed *in situ* stereo microscopes for visual observations and for recording micrographs of the prepared samples. There are several advantages of *in situ* microscopy; the certainty of identifying intact sample areas prior to their removal, documentation of altered finish layers, observation of undisturbed layer chronologies, and observation of overlapping finish layers between adjacent elements. The study of undisturbed adjacent finish layers is essential to the identification of contemporary finishes within each painting period, and is the greatest aid in determining contemporary finishes in later treatments. Historic finish layers seldom remain unaltered; binders continue to oxidize, pigments are affected by UV light and heat, and dirt and oils accumulate on the surface causing color changes and instability in the binders. *In situ* microscopy allows the observation of these changes in the context of environmental stresses.

The examination of samples involved removal of each finish layer with a micro-scalpel to reveal the sequence of coatings in an oblique section. The repetition of this method allowed identification of representative samples and the comparison of the finish sequences among various elements. The size of the initial samples was generally smaller than one centimeter. Samples selected for color matching were sectioned from other layers and treated to return the index of refraction of their binder to that of a paint layer.

A color description was noted for each layer described by the finishes analysis, with the opaque colors being matched to the closest standard of the Munsell Universal Color System's Glossy, Matte or Nearly Neutral

Collections. Because of the closeness of the hue and value of adjacent layers, and because of the possible deterioration of the paint samples, color matches were made on prepared samples in the laboratory.

Finish schedules for the ca. 1930 and ca. 1940 periods were constructed using the cumulative results of the field observations and the laboratory testing. A description of findings for pre into separate sections for the five spaces in the Kitchen and Cook's Quarters and the Slave Quarter. The ca. 1930 and ca. 1940 periods are described by text, illustrations, schedules and chromochronology work sheets. The work sheets include photomicrographs, most taken in situ, of the prepared samples. Samples of the Munsell Color Standards for the opaque colors used in the ca. 1930 and 1940 periods are included for accurate color matching. Additional color standards can be ordered from GretagMacbeth, X-Rite Inc., 4300 44th Street SE, Grand Rapids, MI 49512, 800-248-9748.



Micrograph of finishes applied to 493-3 east clapboards.



East elevations of 493 Auburn Avenue, units 1 & 2, top, units 3 & 4, center, and units 5 & 6. Unit numbers were assigned by the Post Office, and remain in place above each unit's east door. Designations "A, B and C" were assigned in the late 20th century, but no evidence of the letter system survives on the units.







Interior views of 493 Auburn Avenue unit #2. Above is a west view of the east room (front room), and below is a southeast view of the east room.





Interior views of 493 Auburn Avenue unit #2. Above is a northwest view of the west room (back room), and below is a northeast view of the west room.



Description of ca. 1930 Exterior Finishes

The ca. 1930 appearance of 493 Auburn Avenue, units #1 - 6, is estimated to correspond to the third painting of the three duplexes. Each of the three buildings was distinguished by a different color scheme.

- Units 1 & 2 were painted in two colors in ca. 1930 at the third painting of the exterior. The trim surrounding the windows and doors, the doors and the cornice were painted a medium yellow-green matching the 7.5Y 7/2 notation of the Munsell Color System. The clapboards were painted light yellow-cream matching the 5Y 9.25/1.0 notation. The porch was added at the fourth painting of the exterior. The window sash were replaced at the exterior's fifth painting.
- Units 3 & 4 were painted in two colors in ca. 1930 at the third painting of the exterior. The trim surrounding the windows and doors, the doors and the cornice were painted a medium gray-tan matching the 2.5Y 8/2 notation of the Munsell Color System. The clapboards were painted a dark yellow-tan matching the 2.5Y 4/1 notation. The porch was added at the fourth painting of the exterior. The window sash were replaced at the exterior's fifth painting.
- Units 5 & 6 were painted in two colors in ca. 1930 at the third painting of the exterior. The trim surrounding the windows and doors and the cornice were painted a light cream matching the 5Y 9/0.5 notation of the Munsell Color System. The clapboards were painted a dark gray matching the N 3.5 notation. The porch was added at the fourth painting of the exterior. The window sash were replaced at the exterior's fifth painting. The doors were replaced in the late 20th century.

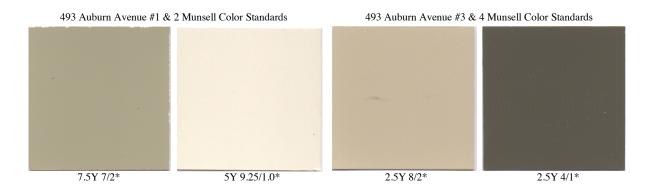
A schedule of the ca. 1930 exterior finishes, along with mounted Munsell Color Standards, appear on page 7.



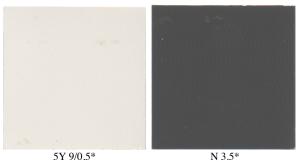
#1 & 2 #5 & 6 #3 & 4

ca. 1930 Exterior Color Schedules

	Trim	Clapboards	Doors	Sash	Porch
493 Auburn Avenue #1 & 2	7.5Y 7/2	5Y 9.25/1.0	7.5Y 7/2	replaced after ca. 1940	constructed ca. 1940
493 Auburn Avenue #3 & 4	2.5Y 8/2	2.5Y 4/1	2.5Y 8/2	replaced after ca. 1940	constructed ca. 1940
493 Auburn Avenue #5 & 6	5Y 9/0.5	N 3.5	replaced after ca. 1940	replaced after ca. 1940	constructed ca. 1940



493 Auburn Avenue #5 & 6 Munsell Color Standards



^{*} Facsimile of Munsell Color Standard. Use mounted color standards for accurate color match.

Description of ca. 1940 Exterior Finishes

The ca. 1940 appearance of 493 Auburn Avenue, units #1 - 6, is estimated to correspond to the fourth painting of the three duplexes. Each of the three buildings was distinguished by a different color scheme.

- Units 1 & 2 were painted in two colors in ca. 1940 at the fourth painting of the exterior. The trim surrounding the windows and doors, the added east porch and the cornice were painted a dark red-tan matching the 5YR 2/4 notation of the Munsell Color System. The clapboards and doors were painted a rose-cream matching the 10YR 9.25/1.5 notation. The window sash were replaced at the exterior's fifth painting.
- Units 3 & 4 were painted in two colors in ca. 1940 at the fourth painting of the exterior. The trim surrounding the windows and doors, the doors, the added east porch and the cornice were painted a medium gray-tan matching the 10YR 6/3.0 notation of the Munsell Color System. The clapboards were painted a medium yellow-gray matching the 5Y 7/0.5 notation. The window sash were replaced at the exterior's fifth painting.
- Units 5 & 6 were painted in two colors in ca. 1940 at the fourth painting of the exterior. The trim surrounding the windows and doors, the added east porch and the cornice were painted a rose-gray matching the 7.5R 4/2 notation of the Munsell Color System. The clapboards were painted a red-brown matching the 10R 3/2 notation. The window sash were replaced at the exterior's fifth painting. The doors were replaced in the late 20th century.

A schedule of the ca. 1940 exterior finishes, along with mounted Munsell Color Standards, appear on page 9.

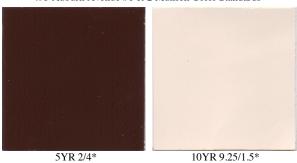


#1 & 2 #3 & 4 #5 & 6

ca. 1940 Exterior Color Schedules

	Trim	Clapboards	Doors	Sash	Porch
493 Auburn Avenue #1 & 2	5YR 2/4	10YR 9.25/1.5	10YR 9.25/1.5	replaced after ca. 1940	5YR 2/4
493 Auburn Avenue #3 & 4	2.5Y 6/4	5Y 7/0.5	10YR 6/3.0	replaced after ca. 1940	2.5Y 6/4
493 Auburn Avenue #5 & 6	7.5R 4/2	10R 3/2	replaced after ca. 1940	replaced after ca. 1940	7.5R 4/2

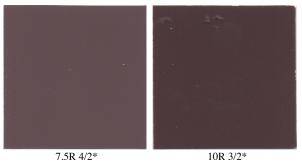
493 Auburn Avenue #1 & 2 Munsell Color Standards



493 Auburn Avenue #3 & 4 Munsell Color Standards



493 Auburn Avenue #5 & 6 Munsell Color Standards



* Facsimile of Munsell Color Standard. Use mounted color standards for accurate color match.

Descriptions of the ca. 1930 and ca. 1940 Interior Finishes in Unit #2

ca. 1930 Interior Finishes in Unit #2

The ca. 1930 interior appearance of 493 Auburn Avenue, unit #2 is estimated to correspond to the third painting of the interior. No historic benchmarks or dated architectural alterations have been found for dating specific finish periods.

- The door and window fascia, the baseboards and the doors in the east and west rooms were painted a medium blue-gray matching the N 7.25 notation of the Munsell Color System. The mantle in the east room was stained and varnished. The window sash were replaced at the fifth painting.
- The wall and ceiling plaster in the east and west rooms was painted the same medium-blue color matching the 5B 8.5/2.0 notation of the Munsell Color System.

ca. 1940 Interior Finishes in Unit #2

The ca. 1940 interior appearance of 493 Auburn Avenue, unit #2 is estimated to correspond to the fourth painting of the interior. No historic benchmarks or dated architectural alterations have been found for dating specific finish periods.

- The door and window fascia, the baseboards and the doors in the east and west rooms were painted a medium rose-cream matching the 5YR 8.5/2.0 notation of the Munsell Color System. The mantle in the east room retained the stained and varnished from ca. 1930. The window sash were replaced at the fifth painting.
- The wall and ceiling plaster in the east and west rooms was painted the same medium-blue color matching the 10B 8/3.0 notation of the Munsell Color System.

Schedules of the ca. 1930 and ca. 1940 interior finishes in unit #2, along with mounted Munsell Color Standards, appear on page 11.

Martin Luther King, Jr. National Historic Site 493A, B, C Auburn Avenue (#s 1 & 2, 3 & 4, 5 & 6) ca. 1930 and ca. 1940 Unit #2 Interior Color Schedules



Southeast view of unit #2's east room.

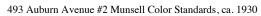
Norhwest view of unit #2's west room.

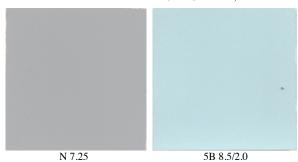
ca. 1930 #2 Interior Color Schedule

	Door & Window Fascia	Baseboards	Doors	Mantle	Sash	Walls & Ceiling Plaster
493 Auburn Avenue #2	N 7.25	N 7.25	N 7.25	stained and varnished	replaced after ca. 1940	5B 8.5/2.0

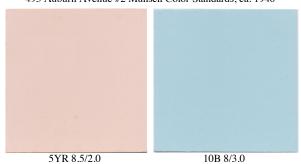
ca. 1940 #2 Interior Color Schedule

	Door & Window Fascia	Baseboards	Doors	Mantle	Sash	Walls & Ceiling Plaster
493 Auburn Avenue #2	5YR 8.5/2.0	5YR 8.5/2.0	5YR 8.5/2.0	stain and varnish finish retained	replaced after ca. 1940	10B 8/3.0 (west room not repainted)





493 Auburn Avenue #2 Munsell Color Standards, ca. 1940



Chromochronology Work Sheets
493 Auburn Avenue Units 1- 6 Exterior Chromochronology Work SheetsMALU-493-1-001 through MALU-493-6-019
493 Auburn Avenue Unit 2 Interior Chromochronology Work Sheets

Sample Location and Description: #2 east window fascia

Chromochronology Work Sheet: MALU-493-1-001 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	medium yellow-green	7.5Y 5/2	Glossy	medium gloss
2.	dark yellow-green	5Y 4/1	Glossy	medium gloss
3.	medium yellow-green	7.5Y 7/2	Nearly Neutral	medium gloss
4.	dark red-tan - east porch added, replaced or enlarged	5YR 2/4	Glossy	medium gloss
5.	yellow ochre - window sash replaced			
6.	medium blue-gray			
7.	medium rose cream			
8.	medium gray			
9.	white			
10.	white			
	medium gray			
12.	light gray			
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14.	medium gray			
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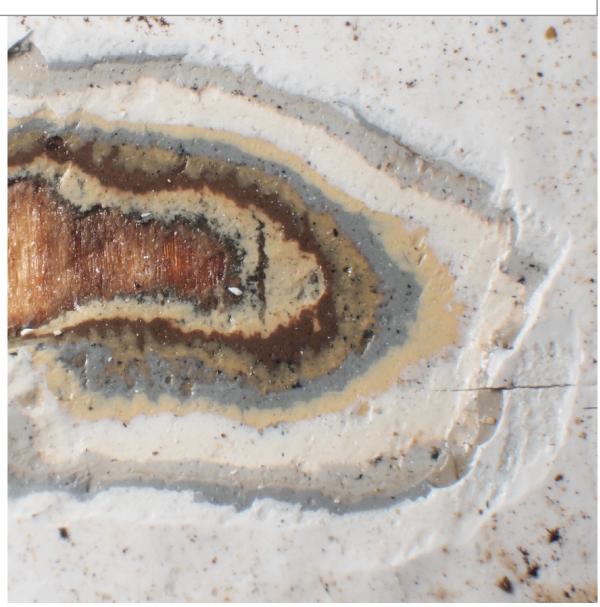
Sample Location and Description: #2 east window fascia

Chromochronology Work Sheet: MALU-493-1-001 2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

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Micrograph



Micrograph of finishes applied to 493-2 east window fascia.

Chromochronology Work Sheet: MALU-493-1-002 / 003 $1\ of\ 3$ Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #1 east window

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	medium yellow-green	7.5Y 5/2	Glossy	medium gloss
2.	dark yellow-green	5Y 4/1	Glossy	medium gloss
3.	medium yellow-green	7.5Y 7/2	Nearly Neutral	medium gloss
4.	dark red-tan - east porch added, replaced or enlarged	5YR 2/4	Glossy	medium gloss
5.	yellow ochre - window sash replaced			
6.	medium blue-gray			
7.	medium rose cream			
8.	medium gray			
9.	white			
10.	white			
11.	medium gray			
12.	light gray			
13.	light gray			
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Chromochronology Work Sheet: MALU-493-1-002 2 of 3 Sheets

Sample Location and Description: #1 east window fascia

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-1 east window fascia.

Observations: The window and door fascia and the cornice were painted a medium yellow-green at the third finish period, estimated to correspond to ca. 1930, and a dark red-tan at the fourth finish period, estimated to correspond to ca. 1940.

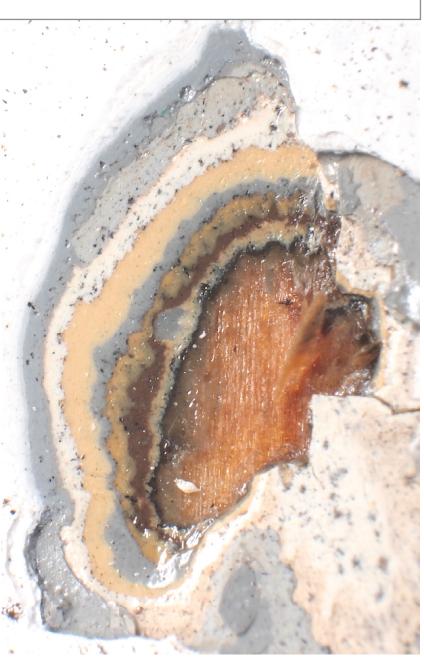
Sample Location and Description: #1 east door fascia

Chromochronology Work Sheet: MALU-493-1-003 3 of 3 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-1 east door fascia.

Chromochronology Work Sheet: MALU-493-1-004 / 005 $1\ of\ 3\ Sheets$

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

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Sample Location and Description: #1 north cornice

sample location on photograph below

Finish Layer Chronologies

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	medium yellow-green	7.5Y 5/2	Glossy	medium gloss
2.	dark yellow-green	5Y 4/1	Glossy	medium gloss
3.	medium yellow-green	7.5Y 7/2	Nearly Neutral	medium gloss
4.	dark red-tan - east porch added, replaced or enlarged	5YR 2/4	Glossy	medium gloss
5.	yellow ochre - window sash replaced			
6.	medium blue-gray			
7.	medium rose cream			
8.	white			
9.	medium gray			
10.	light gray			
11.	light gray			
12.	medium gray			
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27. _____

493-1 north cornice.

493-1&2 south view.

28. 29.

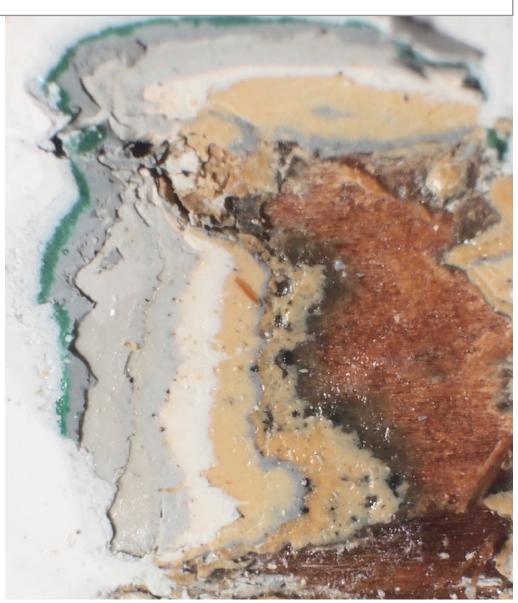
Chromochronology Work Sheet: MALU-493-1-004 2 of 3 Sheets

Sample Location and Description: #1 north cornice fascia

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph

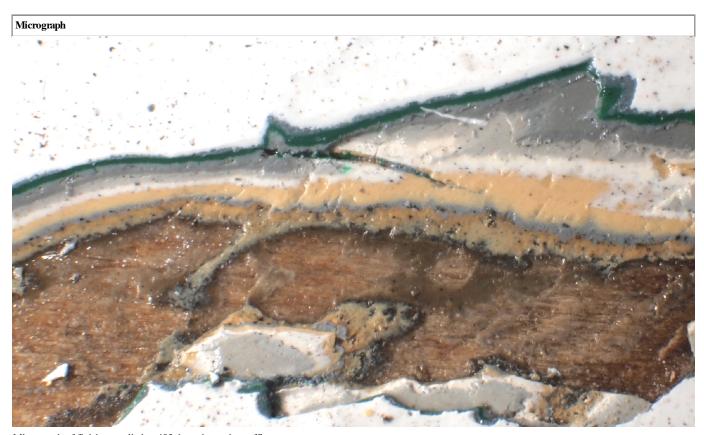


Micrograph of finishes applied to 493-1 north cornice fascia beneath soffit.

Observations: The cornice fascia and soffit were painted a medium yellow-green at the third finish period, estimated to correspond to ca. 1930, and a dark red-tan at the fourth finish period, estimated to correspond to ca. 1940. The first four finishes on the cornice match those applied to the window and door fascia.

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Micrograph of finishes applied to 493-1 north cornice soffit.

Chromochronology Work Sheet: MALU-493-1-006 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #1 east clapboard

- sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
ubstrate	millwork			
	light yellow-cream	5Y 9.25/1.0	Nearly Neutral	medium gloss
	dark rose-tan	5YR 3/2	Glossy	medium gloss
3.	yellow cream	5Y 9.25/1.0	Nearly Neutral	medium gloss
	rose-cream - east porch added, replaced or enlarged	10YR 9.25/1.5	Nearly Neutral	medium gloss
	dark red tan - sash replaced		·	· ·
	dark rose tan			
7.	light gray			
	medium gray			
	light gray			
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Chromochronology Work Sheet: MALU-493-1-006 2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-1 east clapboards.

Observations: The clapboards were painted a light yellow-cream at the third finish period, estimated to correspond to ca. 1930, and a rose-cream at the fourth finish period, estimated to correspond to ca. 1940.

Chromochronology Work Sheet: MALU-493-2-007 1 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #2 east clapboard

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
	light yellow-cream	5Y 9.25/1.0	Nearly Neutral	medium gloss
	dark rose-tan	5YR 3/2	Glossy	medium gloss
	yellow cream	5Y 9.25/1.0	Nearly Neutral	medium gloss
	rose-cream - east porch added, replaced or enlarged	10YR 9.25/1.5	Nearly Neutral	medium gloss
	dark red tan - sash replaced			o
	dark rose tan			
	light gray			
	medium gray			
	light gray			
	dark gray			
	off white			
	off white			
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MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph

Micrograph of finishes applied to 493-2 east clapboards.

Observations: The clapboards were painted a light yellow-cream at the third finish period, estimated to correspond to ca. 1930, and a rose-cream at the fourth finish period, estimated to correspond to ca. 1940.

Chromochronology Work Sheet: MALU-493-2-008 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

20. off-white 21. off-white 22. off-white 23. light rose-cream 24. medium cream

25. white 26. white 27.

29. 30. _

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #2 east door rail

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
	Description	With Soft Hotation	Withsen Concensi	Surface I misn
Substrate	millwork			
1.	. medium yellow-green	7.5Y 5/2	Glossy	medium gloss
2.	dark yellow-green	5Y 4/1	Glossy	medium gloss
3.	. medium yellow-green	7.5Y 7/2	Glossy	medium gloss
4.	rose-cream - east porch added, replaced or enlarged	10YR 9.25/1.5	Nearly Neutral	medium gloss
5.	light rose-cream - sash replaced			
6.	. off-white			
7.	. light rose-cream			
8.	light rose-cream			
9.	medium rose-cream			
10.	medium rose-cream			
11.	medium rose-cream			
12.	dark rose-gray			
13.	off-white			No.
14.	off-white			
15.	light tan			
	light rose-cream			The second second
17.	red-brown			The second second
18.	white			
19.	medium cream			



Chromochronology Work Sheet: MALU-493-2-008 2 of 2 Sheets

Sample Location and Description: #2 east door rail

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-2 east door rail.

Observations: The entry door at #2 was painted a medium yellow-green at the third finish period, estimated to correspond to ca. 1930, and a rose-cream at the fourth finish period, estimated to correspond to ca. 1940. The third period door color matched the contemporary color applied to the trim. At the fourth painting, the door was painted the contemporary clapboard color. This is only one of two east entry doors surviving on the six units. Doors on the unprotected west elevation match the design of the east doors, but are too weathered for analysis.

Sample Location and Description: #1 east window lower sash stile

Chromochronology Work Sheet: MALU-493-1-009 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	black - 5th finish period on trim, post ca. 1940			
	yellow cream			
3.	dark rose tan			
4.	yellow ochre			
5.	rose cream			
6.	medium gray			
7.	medium gray			
8.	medium gray			
9.	dark gray			
10.	charcoal gray			
11.	white			
12.	white			
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Chromochronology Work Sheet: MALU-493-1-009 2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-1 east window, lower sash stile.

Observations: The sash were installed at the 4th or 5th painting of the exterior. The other two duplexes window sash were also installed at the this time.

Chromochronology Work Sheet: MALU-493-1-010 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

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Sample Location and Description: #1porch plate

sample location on photograph below

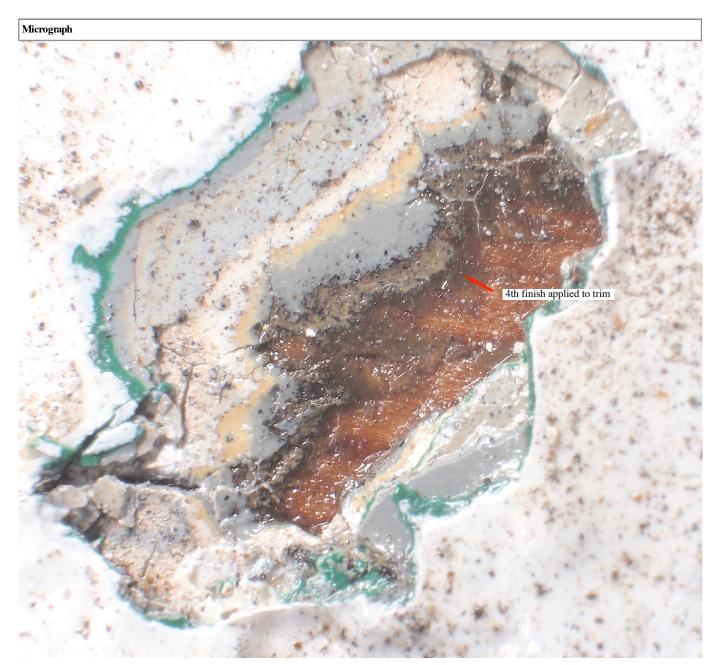
	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	medium yellow-green	7.5Y 5/2	Glossy	medium gloss
2.	dark yellow-green	5Y 4/1	Glossy	medium gloss
3.	medium yellow-green	7.5Y 7/2	Nearly Neutral	medium gloss
4.	dark red-tan - east porch added, replaced or enlarged	5YR 2/4	Glossy	medium gloss
5.	yellow ochre - window sash replaced			
6.	medium blue-gray			
7.	medium rose cream			
	medium gray			
9.	white			
10.	white			
11.	medium gray			
12.	light gray			
13.	light gray			
14.	medium gray			
15.	white			
16.	white			
17.				
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Chromochronology Work Sheet: MALU-493-1-010 2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017



Micrograph of finishes applied to 493-1 porch plate.

Observations: The porch across the east elevation of #1 & 2 was added at the fourth painting of the exterior, estimated to be ca. 1940. The ceiling may have been replaced. The porch posts, gable boards, and rails date to later repairs.

Chromochronology Work Sheet: MALU-493-4-011 / 012 $1\ of\ 3$ Sheets

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MALU 493 A,B,C Aubum Ave.

Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #4 east window fascia

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	medium rose-gray	5YR 4/1	Glossy	medium gloss
2.	dark yellow green	10GY 2/1	Glossy	medium gloss
3.	medium gray-tan	2.5Y 7/2	Glossy	medium gloss
4.	medium yellow-tan - east porch added, replaced or enlarged	10YR 6/3.0	Glossy	medium gloss
5.	medium gray - window sash installed			
6.	rose cream			
7.	red brown			
8.	medium gray			
9.	medium gray			
10.	red-brown			
11.	light gray			
12.	light gray			
13.	medium gray			
14.	off-white			
15.	light rose-cream			
16.	white			
17.	white			
18.				
21.				



493-4 window.

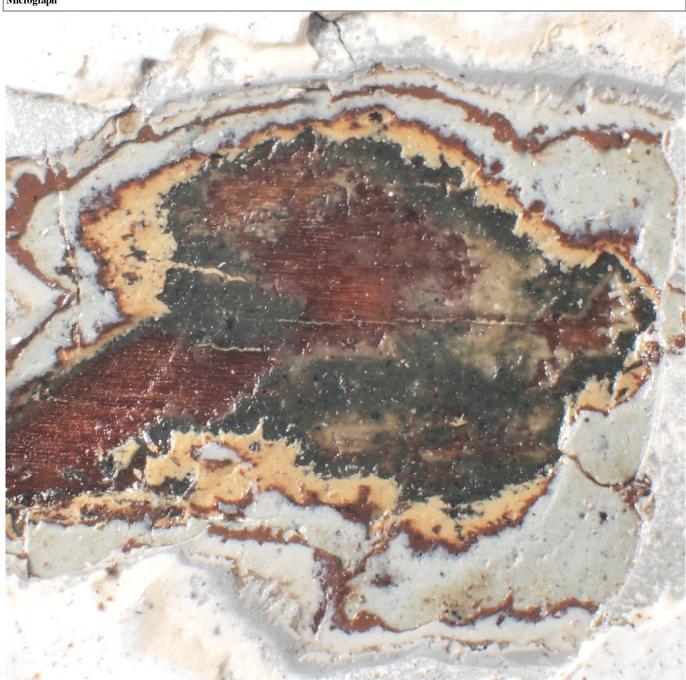
Chromochronology Work Sheet: MALU-493-4-011 2 of 3 Sheets

Sample Location and Description: #4 east window fascia

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-4 east window fascia. See next sheet for overlapped clapboard colors onto fascia.

Observations: The window and door fascia and the cornice were painted a medium gray-tan at the third finish period, estimated to correspond to ca. 1930, and a medium yellow-tan at the fourth finish period, estimated to correspond to ca. 1940.

Chromochronology Work Sheet: MALU-493-4-012 3 of 3 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

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Micrograph

Micrograph of finishes applied to 493-4 east window fascia with overlaps of clapboard colors. Not all clapboard colors are present.

Chromochronology Work Sheet: MALU-493-4-013 / 014 $1\ of\ 3$ Sheets

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MALU 493 A,B,C Auburn Ave.

Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017 Sample Location and Description: #4 east clapboard

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
ubstrate	millwork			
1.	dark red-tan	2.5YR 3/2	Glossy	medium gloss
2.	medium gra- green	5GY 5/1	Glossy	medium gloss
3.	dark yellow-tan	2.5Y 4/1	Glossy	medium gloss
4.	medium yellow-gray - east porch added, replaced or enlarged	5Y 7/0.5	Nearly Neutral	medium gloss
5.	rose-cream - window sash installed			
6.	dark red tan			
7.	medium gray			
8.	rose-cream			
9.	light gray			
10.	off white			
11.	medium gray			
12.	light gray			
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493-4 clapboards.

Chromochronology Work Sheet: MALU-493-4-013 2 of 3 Sheets

Sample Location and Description: #4 east clapboard

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-3 east clapboards.

Observations: The clapboards were painted a dark yellow-tan at the third finish period, estimated to correspond to ca. 1930, and a medium yellow-gray at the fourth finish period, estimated to correspond to ca. 1940.

Chromochronology Work Sheet: MALU-493-3-014 3 of 3 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

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Micrograph of finishes applied to 493-3 east clapboards.

Chromochronology Work Sheet: MALU-493-3-015 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

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Sample Location and Description: #3 east window sash

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	black			
2.	medium rose-cream			
3.	rose-cream			
4.	red-brown			
5.	light gray			
6.	light gray			
7.	medium gray			
8.	white			
9.	rose-cream			
10.	off-white			
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Sample Location and Description: #1 east window sash

Chromochronology Work Sheet: MALU-493-3-015 2 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-3 east window sash.

Observations: The window sash were installed at the 5th painting of the exterior. Sash were also replaced at #1 and 2 and #5 and 6.

Chromochronology Work Sheet: MALU-493-4-016 1 of 2 Sheets

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MALU 493 A,B,C Auburn Ave.

Atlanta, Georgia

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Sample Location and Description: #4 east door stile

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
~ .		Transen 1, same	Transen Concession	- Surface I mish
	millwork			
	medium rose-gray	5YR 4/1	Glossy	medium gloss
2.	dark yellow green	10GY 2/1	Glossy	medium gloss
3.	medium gray-tan	2.5Y 7/2	Glossy	medium gloss
4.	medium yellow-tan - east porch added, replaced or enlarged	10YR 6/3.0	Glossy	medium gloss
5.	medium gray - window sash installed			
6.	rose cream			
7.	red brown			
8.	light gray			
9.	light gray			
10.	red-brown			
11.	white			
12.	off white			
13.	dark tan			
14.	white			
15.	rose-cream			
16.	medium gray			
	light rose-cream			
18.	white			
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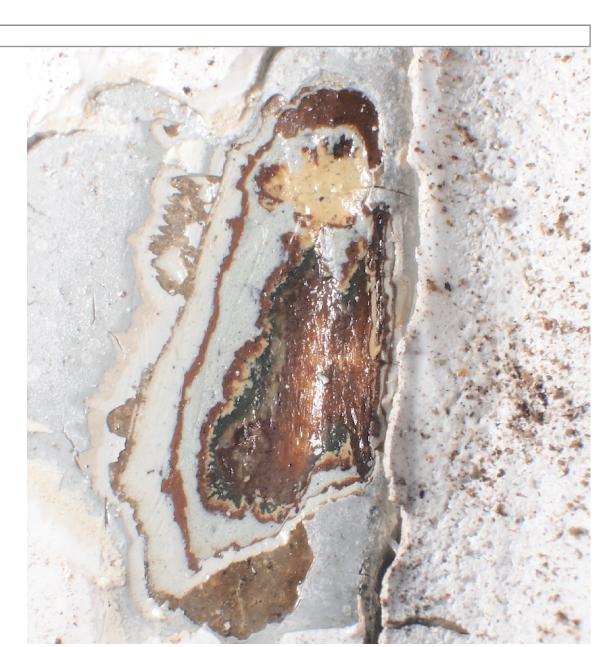


Chromochronology Work Sheet: MALU-493-4-016 2 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Sample Location and Description: #4 east door stile

Micrograph of finishes applied to 493-4 east door stile.

Observations: The #4 east door is one of two surviving entry doors at 493 Auburn Avenue. The door was painted a medium gray-tan at the third finish period, estimated to correspond to ca. 1930, and a medium yellow-tan at the fourth finish period, estimated to correspond to ca. 1940. These colors are the same as those applied to the window and door fascia in the respective periods.

Chromochronology Work Sheet: MALU-493-6-017

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1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #6 east window fascia

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	dark rose-tan	7.5YR 2/4	Glossy	medium gloss
2.	dark gray-green	10Y 3/1	Glossy	medium gloss
3.	light cream	5Y 9/0.5	Nearly Neutral	medium gloss
4.	medium rose-gray	7.5R 4/2	Glossy	medium gloss
5.	medium yellow ochre - window sash replaced			
6.	light rose cream			
7.	medium yellow			
8.	medium yellow			
9.	medium gray			
10.	dark gray			
11.	white			
12.	off white			
13.	off white			
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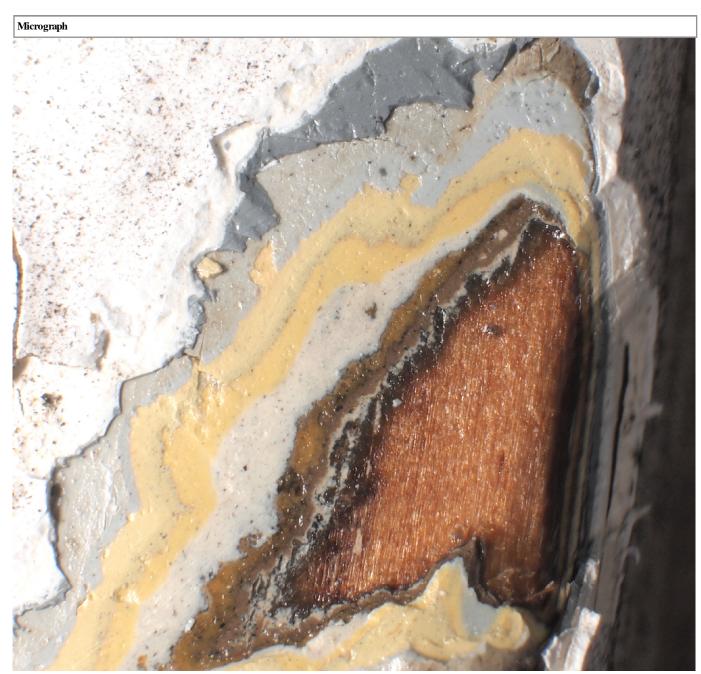


493-6 east door.

Chromochronology Work Sheet: MALU-493-6-017 2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017



Micrograph of finishes applied to 493-6 east door fascia.

Observations: The window and door fascia on #5 and 6 units were painted a light cream in the ca. 1930 period and a rose-gray in the ca. 1940 period.

Chromochronology Work Sheet: MALU-493-6-018 1 of 2 Sheets

27. _____ 28. _____

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MALU 493 A,B,C Auburn Ave.

Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017 Sample Location and Description: #6 east clapboard

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
ubstrate	millwork			
1.	medium tan	10YR 5/2	Glossy	medium gloss
2.	red-tan	7.5YR 3/4	Glossy	medium gloss
3.	dark gray	N 3.5	Glossy	medium gloss
4.	red brown - east porch added, replaced or enlarged	10R 3/2	Glossy	medium gloss
5.	light rose cream - window sash replaced			
6.	medium gray			
7.	medium yellow green			
8.	light gray			
9.	light gray			
10.	medium gray			
11.	medium gray			
12.	bright green			
13.	medium gray			
14.	dark gray		4 4/2	
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493-6 window.

Chromochronology Work Sheet: MALU-493-6-018 2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017



Micrograph of finishes applied to 493-6 east clapboards.

Observations: The clapboards on #5 and 6 units were painted a dark gray in the ca. 1930 period and a red-brown in the ca. 1940 period.

Chromochronology Work Sheet: MALU-493-6-019 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave.

Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #6 east window sash

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
	black - 5th painting period, sash replaced			
	light rose cream			
	medium yellow			
	medium yellow			
	medium cream			
	red-brown			
7.	light gray			
	tan			
	medium gray			
	white			
	white			
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493-6 east window.

Chromochronology Work Sheet: MALU-493-6-019 2 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017



Micrograph of finishes applied to 493-6 east window sash.

Observations: The sash on #5 and 6 units were replaced at the 5th painting of the exterior.

Chromochronology Work Sheet: MALU-493-2int-020 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #2 interior east room window fascia

sample location on photograph below

Finish Layer Chronologies

	Description	Munsell Notation	Munsell Collection	Surface Finish
ubstrate	millwork			
1.	medium blue-gray	5B 8/0.5	Nearly Neutral	medium gloss
2.	dark red-brown glaze over 1st finish - translucent	not opaque		
3.	medium blue-gray - ca. 1930	N 7.25	Glossy	medium gloss
4.	medium rose-cream - ca. 1940	5YR 8.5/2.0	Glossy	medium gloss
5.	light rose			
6.	light rose			
7.	light rose			
8.	medium gray-rose			
9.	medium gray-rose			
10.	light rose-cream			
11.	cream			
12.	cream			
13.	medium blue			
14.	white			
15.	light yellow-tan			
16.	cream			
17.	cream			
18.	white			
19.	white			
20.				
21.				
26.				



Southeast view of unit #2's east room.

Chromochronology Work Sheet: MALU-493-2int-020 2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-2 interior east room window fascia.

Observations: The interior trim in unit 2 was painted a medium blue-gray in ca. 1930, and a medium rose-cream in ca. 1940.

Chromochronology Work Sheet: MALU-493-2int-021 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Sample Location and Description: #2 interior east room baseboard fascia

sample location on photograph below

Finish Layer Chronologies

Description	Munsell Notation	Munsell Collection	Surface Finish
strate millwork			
1. medium blue-gray	5B 8/0.5	Nearly Neutral	medium gloss
2. dark red-brown glaze over 1st finish - translucent	not opaque		
3. medium blue-gray - ca. 1930	N 7.25	Glossy	medium gloss
4. medium rose-cream - ca. 1940	5YR 8.5/2.0	Glossy	medium gloss
5. <u>light rose</u>			
6. <u>light rose</u>			
7. light rose			
8. medium gray-rose			
9. medium gray-rose			
10. light rose-cream			
11. cream			
12. cream			
13. medium blue			
14. white			
15. <u>light yellow-tan</u>			
16. cream			
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18. white			
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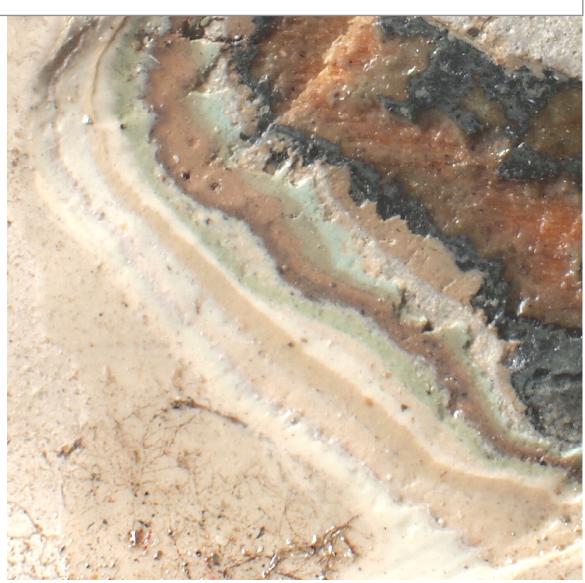
Southeast view of unit #2's east room.

Chromochronology Work Sheet: MALU-493-2int-021 2 of 3 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-2 interior east room baseboard.

Observations: The interior baseboards in unit 2 were painted a medium blue-gray in ca. 1930, and a medium rose-cream in ca. 1940. The sequence of finishes on the baseboards follow those applied to the door and window fascia.

Chromochronology Work Sheet: MALU-493-2int-022 1 of 2 Sheets

Sample Location and Description: #2 interior east room mantle

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

sample location on photograph below

	Description		Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork				
1.	stained and varnished, dark red-brown		not opaque		glossy
2.	- first finish retained for undetermined	1 time –			
3.	rose-cream base coat	2 coat finish, post ca. 194	10		
4.	dark red-brown glaze - translucent				
5.	cream - finish #11 applied to window &	door fascia			
6.	cream				
7.	medium blue				
8.	white				
9.	light yellow-tan				
10.	cream				
11.	cream				
12.	white				
13.	white				
14.					
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West view of unit #2's east room.

Chromochronology Work Sheet: MALU-4493-2int-022

2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Sample Location and Description: #2 interior east room mantle

Micrograph of finishes applied to 493-2 interior east room mantle.

Observations: The east room mantle is a manufactured piece that likely arrived with a stained-and-varnish finish. The first period finish on the oak mantle remained exposed for some time, and likely was exposed during the ca. 1929 - 1940 period. This is suggested by the third finish applied to the mantle. This is a cream color that is the 11th period finish on the door and window fascia.

Chromochronology Work Sheet: MALU-493-2int-023 / 024 / 025 $1\ of\ 2\ Sheets$

Sample Location and Description: #2 interior west room millwork

MALU 493 A,B,C Auburn Ave.

Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
ubstrate	millwork			
1.	medium blue-gray	5B 8/0.5	Nearly Neutral	medium gloss
2.	dark red-brown glaze over 1st finish - translucent	not opaque		
3.	medium blue-gray - ca. 1930	N 7.25	Glossy	medium gloss
4.	medium rose-cream - ca. 1940	5YR 8.5/2.0	Glossy	medium gloss
5.	light rose			
6.	light blue-green			
7.	medium tan			
8.	medium gray-rose			
9.	medium gray-rose			
10.	light rose-cream			
11.	medium yellow-green			
12.	cream			
13.	bright green			
14.	white			
15.	light yellow-tan			
16.	cream			
17.	cream			
18.	cream			
19.	white			
20.	white			
21.				
25.				
29.				
30.				







Northwest view of unit #2's west room.

Sample Location and Description: #2 interior west room window fascia

Chromochronology Work Sheet: MALU-493-2int-023 2 of 4 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-2 interior west room window fascia.

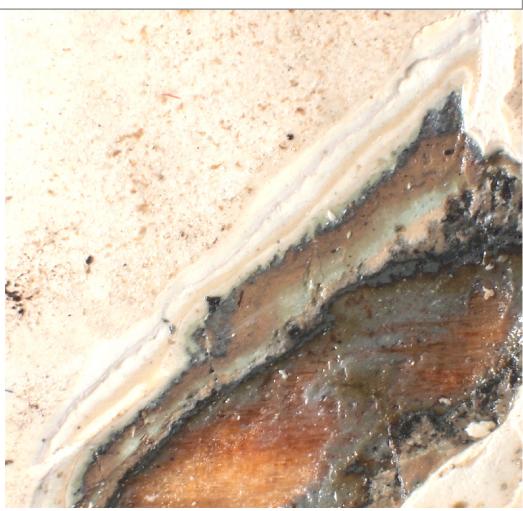
Observations: The millwork in unit 2 was painted a medium blue-gray in ca. 1930, and a medium rose-cream in ca. 1940, matching the finishes applied in the east room. The doors have the same finish history as the door and window fascia. The sash were replaced post ca. 1940. The millwork in the west room was painted more frequently than the plaster walls and ceiling.

Chromochronology Work Sheet: MALU-493-2int-024 3 of 4 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

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Micrograph



Micrograph of finishes applied to 493-2 interior west room closet door.

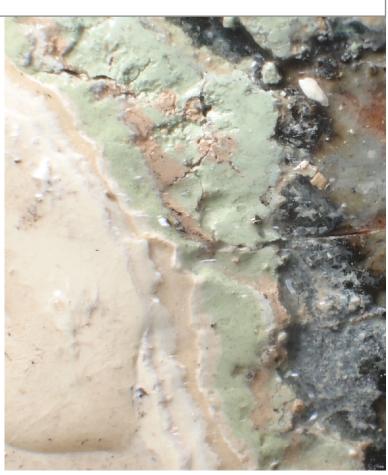
Sample Location and Description: #2 interior west room baseboard

Chromochronology Work Sheet: MALU-493-2int-025 4 of 4 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-2 interior west room baseboard.

Sample Location and Description: #2 interior west room west door fascia

Chromochronology Work Sheet: MALU-493-2int-026 1 of 2 Sheets

MALU 493 A,B,C Aubum Ave. Atlanta, Georgia

24. 25. 26. 27. 28. 29. 30.

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sample location on photograph b	helo	O
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	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	millwork			
1.	light blue-green - west alterations to west room, finish #6 on origina	1		
2.	medium tan			
3.	medium gray-rose			
4.	medium gray-rose			
5.	light rose-cream			
6.	medium yellow-green			
7.	cream			
8.	bright green			
9.	white			
10.	light yellow-tan			
11.	cream			
12.	cream			
13.	cream			
14.	white			
15.	white			
16.				
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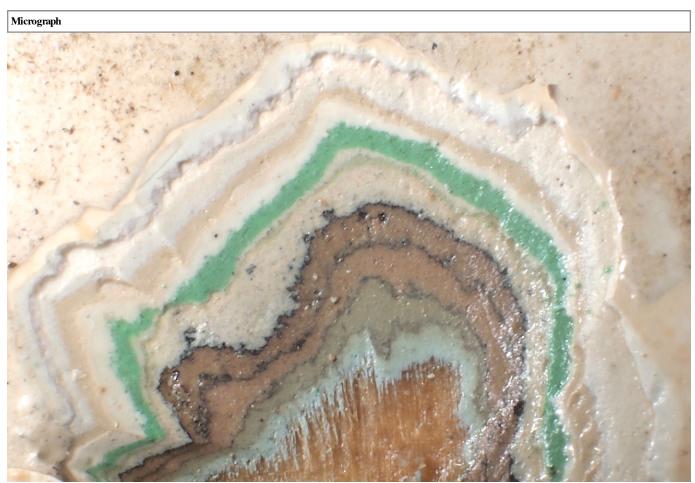


Northwest view of unit #2's west room.

Chromochronology Work Sheet: MALU-493-2int-026 2 of 2 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017



Micrograph of finishes applied to 493-2 interior west room west door fascia.

Chromochronology Work Sheet: MALU-493-2int-027 / 028 $1\ of\ 3$ Sheets

Sample Location and Description: #2 interior east room plaster

MALU 493 A,B,C Auburn Ave.

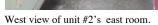
Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

- sample location on photograph below

	Description	Munsell Notation	Munsell Collection	Surface Finish
ostrate	sand coat smooth plaster			
1.	medium rose-cream	10YR 8/3.0	Nearly Neutral	matte
2.	medium blue-gray	10B 9/0.5	Nearly Neutral	matte
3.	medium blue - ca. 1930 est.	5B 8.5/2.0	Nearly Neutral	matte
4.	medium blue - ca. 1940 est.	10B 8/3.0	Nearly Neutral	matte
5.	medium blue-green			
6.	medium blue-gray			
7.	medium blue-gray			
8.	medium rose-gray			
9.	medium blue			
10.	medium rose			
11.	light tan			
12.	medium yellow-green			
13.	light rose			
14.	medium blue			
15.	white			
16.	medium yellow-tan			
17.	gypsum skim coat			
18.	light rose-cream			
19.	medium yellow-green			
20.				
21.				
26.				
29.				
30.				





Southeast view of unit #2's east room.

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017



Micrograph of finishes applied to 493-2 interior east room wall plaster.

Observations: The plaster walls and ceilings in unit #2 were painted medium blue in ca. 1930 and in ca. 1940. The sequence of finishes on the ceiling follows those applied to the walls.

Chromochronology Work Sheet: MALU-493-2int-028 3 of 3 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017

Micrograph



Micrograph of finishes applied to 493-2 interior east room ceiling plaster.

 $\textbf{Chromochronology Work Sheet:}\ MALU-493-2 int-029\ /\ 030$

1 of 3 Sheets

MALU 493 A,B,C Auburn Ave.

Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017 Sample Location and Description: #2 interior west room plaster

sample location on photograph below

Finish Layer Chronologies

	Description	Munsell Notation	Munsell Collection	Surface Finish
Substrate	sand coat smooth plaster			
	medium rose-cream	10YR 8/3.0	Nearly Neutral	matte
	medium blue-gray	10B 9/0.5	Nearly Neutral	matte
	medium blue - ca. 1930 est.	5B 8.5/2.0	Nearly Neutral	matte
	medium blue-gray - 5th finish in east room		, , , , , , , , , , , , , , , , , , ,	
	medium rose-gray - 7th finish in east room			
	light tan - 10th finish in east room			
	medium yellow-green - 11th finish in east room			
	light rose - 12th finish in east room			
	medium yellow-tan - 15th finish in east room			
	gypsum skim coat			
	light rose-cream - 16th finish in east room			
	medium yellow-green - only variation in color from east room walls	S		
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Northeast view of unit #2's west room.

Chromochronology Work Sheet: MALU-493-2int-029 2 of 3 Sheets

Sample Location and Description: #2 interior west room plaster wall

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017



Micrograph of finishes applied to 493-2 interior west room wall plaster.

Observations: The plaster walls and ceiling in unit #2's west room were painted medium blue in ca. 1930 and not repainted until after ca. 1940. The sequence of finishes on the ceiling follows those applied to the walls. The ca. 1930 finish is the same as applied in the east room.

Chromochronology Work Sheet: MALU-493-2int-030 3 of 3 Sheets

MALU 493 A,B,C Auburn Ave. Atlanta, Georgia

George Fore Architectural Conservator Raleigh, North Carolina November 2017



Micrograph of finishes applied to 493-2 interior west room ceiling plaster.